

**Object position detector with edge motion feature**

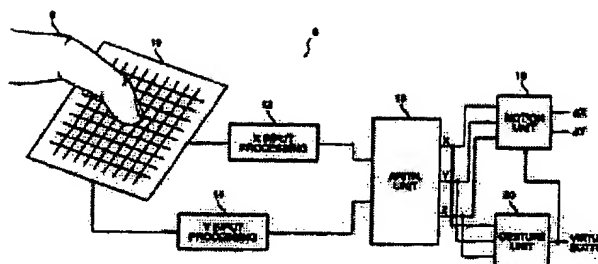
**Patent number:** CN1166214  
**Publication date:** 1997-11-26  
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**Classification:**  
- **International:** G06F3/033; G06K11/16  
- **European:**  
**Application number:** CN19950195810 19950901  
**Priority number(s):** US19940300630 19940902

**Also published as:**

WO9607966 (A1)  
EP0777875 (A1)  
EP0777875 (B1)

Abstract not available for CN1166214  
Abstract of correspondent: **WO9607966**

A proximity sensor system includes a sensor matrix array having a characteristic capacitance on horizontal and vertical conductors connected to sensor pads. The capacitance changes as a function of the proximity of an object or objects to the sensor matrix. The change in capacitance of each node in both the X and Y directions of the matrix due to the approach of an object is converted to a set of voltages in the X and Y directions. These voltages are processed by circuitry to develop electrical signals representative of the centroid of the profile of the object, i.e., its position in the X and Y dimensions. Noise reduction and background level setting techniques inherently available in the architecture are employed. The speed of the cursor movement depends on the one of the display it resides.



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